20010603.qrp v02_n209.qrl.20010603

Date: Sun, 3 Jun 2001 19:03:05 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2209

QRP-L Digest 2209

Topics covered in this issue include:

Date: Sat, 2 Jun 2001 19:23:34 -0400
From: "Alan Fryer" <qrpdx@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99291] FS at Manassas Hamfest
Message-ID: <001e01c0ebbb$0c73c7e0$e3c1323f@hppav>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Inventory reduction time again. I'll have this stuff at the Hamfest bright
and early Sunday morning. Try 147.42 simplex if you're there early.

Unbuilt, new in the box K1 40/20M - $250
Unbuilt, new in the box K2 - $545
Wilderness SST for 40 - assembled - $75
Wilderness SST for 20 - assembled - $75
Norcal 20 - assembled - modified for 40M per the manual - $95
Wilderness KC1 - assembled - $40
NC-40A - assembled - vintage 1995, some mods - $85
TenTec PM-2A - assembled - needs original knobs and switches - otherwise excellent - see me

The assembled items are working models with original docs.

Qty. 2 quad spiders for 2 inch boom - $50/pair
Qty. 2 quad spiders for 3 inch boom - $50/pair
Spiders and spreaders for 4 element 10/15M quad - $200
8 fiberglass spreaders for 6M quad - $25
Coils, etc. for Butternut vertical - not a complete antenna - see me
Qty. 50 Rohn 510 guy insulators - $3.00 EA

Alan, N3BJ

Date: Sat, 2 Jun 2001 17:28:35 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [99292] TAC Contest
Message-ID: <20010603002836.71663.qmail@web11604.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Wow - the TAC contest was very active this year. Bands were strange. Up and down, but on the whole pretty active. I worked two stations on 3 bands: N4BP and N3AO. Had a good time and kept out of mischief during the drenching rain here. Many thanks to Ron and the EPA club. They're going to work for hours going through logs. Here's mine:

DATE	TIME	FREQ	CALL	MODE	MY	HIS	EXCHANGE
Jun 2-01	1811	14	K4BAI	CW	599	559	JOHN GA 706
Jun 2-01	1814	7	KF2EW	CW	599	559	MIKE NJ 973
Jun 2-01	1819	7	KA3WTFCW	579	559	FRAN PA 570X	

```
Jun 2-01 1823     14   WA7LNWCW 559  559  JACK UT 435
Jun 2-01 1828     14   K4JM CW   579  559  TOM VA 804
Jun 2-01 1831     14   N4ROA     CW   559  559  DAN VA 540
Jun 2-01 1838     21   N4BP CW   599  599  BOB FL 954
Jun 2-01 1844     21   N3AO CW   599  599  CARTER PA 610X
Jun 2-01 1850     21   W2AGN     CW   579  599  JOHN NJ 856
Jun 2-01 1924     21   AA5EA     CW   559  559  WALLY TX 915
Jun 2-01 1926     21   K3PG CW   579  599  PAUL MD 410
Jun 2-01 1933     14   N3AO CW   599  559  CARTER PA 610X
Jun 2-01 1936     14   NA3V CW   579  599  JIM PA 814
Jun 2-01 2045     14   N4BP CW   559  559  BOB FL 954
Jun 2-01 2052     7    KG2H CW   559  559  JIM NY 518
Jun 2-01 2102     7    W3DP CW   599  599  DICK PA 717X
Jun 2-01 2103     7    KM1Z CW   559  579  FRAN VT 802
Jun 2-01 2106     7    W2PTF     CW   539  549  DON NY 845
Jun 2-01 2115     7    W3ZMN     CW   559  559  CONRAD PA 610X
Jun 2-01 2117     7    N1EU CW   599  559  BARRY NY 518
Jun 2-01 2118     7    W2AGN     CW   579  579  JOHN NJ 856
Jun 2-01 2219     7    NM3B CW   559  599  WAYNE A 814
Jun 2-01 2233     7    W3EEK     CW   599  599  CARL PA 570X
Jun 2-01 2237     7    N4BP CW   559  339  BOB FL 954
Jun 2-01 2241     7    N3AO CW   559  579  CARTER PA 610X
Jun 2-01 2246     7    N3EPA     CW   559  559  RON PA 610X
Jun 2-01 2253     7    K3PG CW   559  559  PAUL MD 410
Jun 2-01 2257     14   EA1BSUCW 559  559  ALEX SPAIN 00
Jun 2-01 2327     7    N2CQ CW   559  559  KEN NJ 872
Jun 2-01 2333     7    N4RAO     CW   559  559  DAN VA 540
Jun 2-01 2336     3.5  N3EPA     CW   559  559  RON PA 610X
Jun 2-01 2339     3.5  KM1Z CW   599  599  FRAN VT 802
Jun 2-01 2342     3.5  KG2H CW   319  559  JIM NY 518
              -end-
```

Date: Sat, 2 Jun 2001 18:36:50 -0600
From: "Rod Cerkoney, N0RC" <n0rc@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "Elecraft-list" <elecraft@qth.net>
Subject: [99293] FS Sierra Band Modules for 80m & 10m
Message-ID: <008a01c0ebc5$4839b500$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Assembled, $30 each, shipped CONUS

    -or-

Both for $55 shipped (to the same addr) CONUS

73, Rod N0RC
Ft Collins, CO

****
                SuperFest 2001 14-Jul-2001
       http://www.qsl.net/n0rc/hamfest/hamfest.html
                          BE THERE!
****

Date: Sat, 2 Jun 2001 20:45:07 -0400
From: Mike <kd0ar@alltel.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99294] Western PA meet
Message-ID: <01060220474100.00567@shack>
Content-Type: text/plain
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Will be attending the Butler hamfest Sunday, the 3rd rain or shine. Hope to
meet some of the group there. Will be looking for some odds and ends. need a
cheappie brass key and a nice straight key. the brass key is for camping, the
good one fer my shack, along with some tubes for a glowbug project.

Seeya there!
Mike, kd0ar

Date: Sat, 02 Jun 2001 11:41:19 -0400
From: "Phil (VA3UX)" <phil@vaxxine.com>
To: qrp-l@Lehigh.EDU
Subject: [99295] I held the Tuna Tin 2
Message-ID: <5.0.2.1.0.20010602112849.009f1100@vaxxine.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I had the immense pleasure of meeting Ed Hare in person at the Rochester, NY hamfest on Friday. We had arranged to meet so that I could assume possession of a decent sized lot of vintage Tektronix test equipment that Ed brought with him.

After transferring several hundred pounds of vintage iron from Ed's fabulous vintage pick-up truck to my van, Ed reached into the front seat of his pick-up and handed me a board with a small round can mounted on it. It was the original Tuna Tin 2 - the same one in the pictures in the original article, the very one built by Doug DeMaw himself. An interesting experience.

Phil

Date: Sat, 02 Jun 2001 21:20:56 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: phil@vaxxine.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99296] Re: I held the Tuna Tin 2
Message-ID: <3B1990F8.22719560@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Phil I hope you did wash your hands after you were done.

After all...

...the TT2 spent the weekend with the Flying Pigs in Dayton!!

73
Paul K4FB

A proud Piggie...

Date: Sat, 02 Jun 2001 22:54:45 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [99297] MH-101 - VFO comes alive in Cajunland
Message-ID: <20010602.215323.7559.0.n5ib@juno.com>

Hi grasshoppers, Masters, and eavedroppers,

Finally buckled down to melt some solder today and completed the VFO.
Status is as follows:

Fo = 2.525 MHz, less than 50 Hz drift after 1 min warmup
or about 105 kHz higher than nominal for the 7.680 MHz IF
this with 0 V bias on D1 (an MV1662) and no capacitor yet installed at C7

@ C2-C3 junction: 240 mV rms
@ C9-C10 junction: 110 mV rms
@ Q2 base: 1.7 V rms

My layout is similar to Chuck's but has a couple of variations, as well
as being a tad more spacious. I started with a larger substrate board,
not being quite so confident of being able to do as space-efficient a job
as The Master. I'll try to get some pics on my web page by Tuesday of
next week. <http://www.qsl.net/n5ib/>

I'll probably fiddle with the tuning pot and see what kind of range there
is, but C7, I suppose, must wait until the two mixers are connected,
since their load will affect the VFO.

Rumor has it there is a front end filter design "out there" that doesn't
use the IF can. That's what I'm holding out for.

72,
Jim N5IB
grasshopper

Date: Sun, 03 Jun 2001 03:35:34
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [99298] IF Transformer Ringdown (sorta re MH101)
Message-ID: <F4x3G5aYY61LEdyt3ce00000029@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Since Chuck Adams brought up the subject of IF transformers and Q, I became
interested and set up an experiment to investigate this property. I
don't know whether this is what he had in mind.

First, I built a circuit using a 555 to generate square waves of about 100 kHz and used this via a coupling cap (27 pF) to "twang" a 10.7 MHz IF transformer through its nonresonant secondary. I used one oscilloscope probe on the square wave source to trigger the scope and another probe on the resonant side of the transformer to watch the resulting oscillations.

If I have understood everything correctly, the rate of decay of the oscillations is a measure of Q. Expressed in terms of the number of cycles required to decay to e^(-1) or 0.32 of the amplitude at some starting point, the Q is then simply pi times that number.

I tried this with the MOUSER '123 transformers and also some surplus store unknowns and found similar results ... about 10 cycles to decay to 32%. That seems like awfully low Q but then you have to realize that the transformer dissipates energy into the oscilloscope probe and also back into the signal generator, presumably.

Any of you more formally trained in this stuff, is there a better way to do this? I wondered whether I could build a "twanger" that switched to having a high impedence after the pulse. As it is, it is sort of like striking a bell and then leaving the striker resting against the bell (and with another device attached to the bell to watch its oscillations). I suppose I'd need some kind of switch, maybe using diodes, inline.

P.S. one can also see the resonant frequency by reading the scope trace.

P.S.S. because the 555 didn't yield a clean square wave I actually did not start measuring the rate of decay on the scope trace until after the point where the square wave had settled down and was no longer adding additional energy to the resonant circuit.

Brad

Date: Sat, 2 Jun 2001 23:53:10 -0400
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <alihernlem@hotmail.com>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [99299] RE: IF Transformer Ringdown (sorta re MH101)
Message-ID: <000101c0ebe0$b5aba2e0$df0cf618@alex>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Brad:

Your experiment reminds me of a lab experiment my students performed years ago when I taught basic electronics at Grumman Aerospace. I'll try and go though my old notes to see if I can dig up the circuit.

My students were always surprised to see that the period of the decaying waveform never changed, proving that they were working with a fixed resonant circuit--even though the rep rate and pulse duration of the excitation was changed. Neat.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of Brad Hernlem
Sent: Sunday, June 03, 2001 3:36 AM
To: Low Power Amateur Radio Discussion
Subject: IF Transformer Ringdown (sorta re MH101)

Since Chuck Adams brought up the subject of IF transformers and Q, I became interested and set up an experiment to investigate this property. I don't know whether this is what he had in mind.

First, I built a circuit using a 555 to generate square waves of about 100 kHz and used this via a coupling cap (27 pF) to "twang" a 10.7 MHz IF transformer through its nonresonant secondary. I used one oscilloscope probe on the square wave source to trigger the scope and another probe on the resonant side of the transformer to watch the resulting oscillations.

If I have understood everything correctly, the rate of decay of the oscillations is a measure of Q. Expressed in terms of the number of cycles required to decay to e^(-1) or 0.32 of the amplitude at some starting point, the Q is then simply pi times that number.

I tried this with the MOUSER '123 transformers and also some surplus store unknowns and found similar results ... about 10 cycles to decay to 32%. That seems like awfully low Q but then you have to realize that the transformer dissipates energy into the oscilloscope probe and also back into the signal generator, presumably.

Any of you more formally trained in this stuff, is there a better way to do this? I wondered whether I could build a "twanger" that switched to having a high impedence after the pulse. As it is, it is sort of like

striking a bell and then leaving the striker resting against the bell (and with another device attached to the bell to watch its oscillations). I suppose I'd need some kind of switch, maybe using diodes, inline.

P.S. one can also see the resonant frequency by reading the scope trace.

P.S.S. because the 555 didn't yield a clean square wave I actually did not start measuring the rate of decay on the scope trace until after the point where the square wave had settled down and was no longer adding additional energy to the resonant circuit.

Brad

Date: Sat, 02 Jun 2001 23:53:35 -0500
From: David Gauding <david.gauding@bbs.galilei.com>
To: qrp-l@lehigh.edu
Subject: [99300] M0ABC/M on 14.026 @ 0456Z
Message-ID: <5.1.0.14.0.20010602235028.020808c0@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

M0ABC/P about 589 into Midwest.

Worked on 500mW with Argosy II and St. Louis Express Vertical.

Still on frequency at 0458Z, great ears, will QRS.

Good luck,

de Dave,NF0R nf0r@slacc.com

Date: Sun, 03 Jun 2001 09:37:23 -0400
From: Bill Meara <n2cqr@clix.pt>
To: qrp-l@lehigh.edu
Cc: homebrew@qth.net
Subject: [99301] 17mter DSB - DSB DX!
Message-ID: <3.0.6.16.20010603093723.2f5716b6@pop.clix.pt>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

After fixing my balanced modulator problem, this week I was trying to get the audio coming out of my 17 meter DSB rig to sound, well, human. There was clearly something wrong, something very nonlinear, in the RF amp that I'd cobbled together.

Yesterday morning, as I considered my options, I remembered that the 30 meter CW QRP rig that I'd built while in the Dominican Republic had a very nice, robust broadband driver and RF amp (to MRF472s in parallel). I haven't been using the 30 meter rig very much (I really hate using the DC receiver that I built with it), so it didn't take long for me to convince myself to pull out the transmitter board and convert it into the PA for my 17 meter DSB rig.

It looked like all stages in the 30 meter rig (VXO controlled 6 watter from QRP Classics) were class A -- except, of course, the class C final. I quickly built a little diode-based circuit to lift the bases of the MRF472 to a voltage that would keep things in Class A. I disconnected the 30 meter output filter (I'll rebuild it for 17 later) and hooked the 17 meter dipole to the .1 cap that goes to the final.

The driver transistor was running a bit hot so I improvised a heat sink out of a few inches of copper tubing and some heat sink compound.

I used the microphone from an old Yaesu memorizer transceiver. I had a bit of trouble getting the mic to stay connected so I whipped out some duct tape and stuck the connector and cables right to the desk.

T-R switching is accomplished via the T-R relay that usually connects my Drake 2-B to my HT-37. So to transmit I must connect the DSB transmitter's ground lead to the Gel Cell and then put the HT-37 in transmit mode. This will all get easier, of course, when this rig is mounted in a cabinet.

This morning I had another schedule with Felipe, CU2BD to test the rig. I made the final connections with just minutes to spare. While I was waiting for Felipe to arrive on freq, I heard CT2FYI calling from Lisbon. I gave him a shout, got a good signal report (Lisbon is about 900 miles west of me!). Then Felipe came on and told me the audio sounded good. A few minutes later I worked D44BS in the Cape Verde Islands (I got a 55). Then came GB2RN on the HMS Belfast in London - he also gave me 55.

It was a lot of fun getting this thing to work. It looks like I'm getting about 2 watts PEP out. And I don't see any signs of distortion. I'm going to see who else I can work.

Next step will be to put the rig in a cabinet and build a more comfortable T-R arrangement. Then I'll be looking for suggestions on Direct Conversion

RX circuits.

Thanks again to all those who've been helping out with advice and
encouragement.
73 de CU2JL (aka N2CQR)
Bill Meara
Sao Miguel Island,
The Azores, Portugal
http://planeta.clix.pt/n2cqr

Date: Sun, 3 Jun 2001 06:56:46 -0400
From: "George Goodroe" <goodroe@worldnet.att.net>
To: <qrp-l@lehigh.edu>
Subject: [99302]] FS: Kenwood desk Mike
Message-ID: <005201c0ec1b$e64aae60$92165c0c@ggoodroe>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

FOR Sale:

 (1) Kenwood MC-60A Desk Mike, with frequency up/down control and PTT lock.
 In box, Like new...

 $75.00 or best offer

 Call George, KF4CPJ
 727-578-2829
>
> ------------------------------------
> Try the the internet over Amateur Radio.
> Contact steve@k4ksa.org for details!
> --
> Amateur Radio TCP/IP connectivity provided
> by Intellegence Network Online, Clearwater Florida
> For more info:
> www.IntNet.net
> (727) 442-0114
>
>

Date: Sun, 3 Jun 2001 06:00:08 -0600

From: "Rod Cerkoney, N0RC" <n0rc@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99303] Re: FS Sierra Band Modules for 80m & 10m UPDATE
Message-ID: <003601c0ec24$bd1ce860$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

10m module SOLD

80m module still available.

-rc-
----- Original Message -----
From: "Rod Cerkoney, N0RC" <n0rc@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, June 02, 2001 6:36 PM
Subject: FS Sierra Band Modules for 80m & 10m

> Assembled, $30 each, shipped CONUS

73, Rod N0RC
Ft Collins, CO

****
                 SuperFest 2001 14-Jul-2001
       http://www.qsl.net/n0rc/hamfest/hamfest.html
                         BE THERE!
****

Date: Sun, 3 Jun 2001 15:35:50 +0100
From: "Kenneth Evans" <w4du@mediaone.net>
To: "QRP-l Discussion" <qrp-l@Lehigh.EDU>
Subject: [99304] Ten Tec Argonaut 509
Message-ID: <003e01c0ec3a$7fd1fb60$6501a8c0@atl.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am looking at a 509 for a friend. Anyone have leads on where to find

bungy cord to re-string the dial. Also a schematic would be a great help.
72/3,
Ken W4DU
QRP ARCI #696, GQRP, NOGA, NORCAL, ARRL-Life

Date: Sun, 03 Jun 2001 11:35:43 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: w4du@mediaone.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [99305] Re: Ten Tec Argonaut 509
Message-ID: <3B1A594F.E5078331@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ken,

Ten Tec used to sell a complete dial cord restringing set for about 5.00.
Contact them through their website!

73

Date: Sun, 3 Jun 2001 07:01:40 -0400 (EDT)
From: n2go@arrl.net
To: Kenneth Evans <w4du@mediaone.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99306] Re: Ten Tec Argonaut 509
Message-ID: <Pine.LNX.4.21.0106030700460.551-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ten Tec has the dial cord and "bungy".Their service department guys are
second to none.

73,

Jim n2go

Date: Sun, 3 Jun 2001 07:04:43 -0400 (EDT)
From: n2go@arrl.net
To: Kenneth Evans <w4du@mediaone.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99307] Re: Ten Tec Argonaut 509
Message-ID: <Pine.LNX.4.21.0106030703530.551-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I forgot to mention about the schematic for the 509..
here it is:
http://www.wwc.edu/~frohro/Radio%20Schematics/Argonaut/ten-
tec_argonaut_509_schem.htm

73,

Jim

Date: Sun, 3 Jun 2001 11:06:22 -0500
From: "Aartec" <aartec@dwx.com>
To: <qrp-l@Lehigh.EDU>
Subject: [99308] MH101 New site with MH101 pictures
Message-ID: <000001c0ec47$22f9c000$c19fef3f@b6v6o9>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have added a MH101 section to my web site http://www.qsl.net/w0pwe/ where
I put some pictures and comments related to the project. The oscillator is
built and running at this point.

72
Jerry
W0PWE

Date: Sun, 3 Jun 2001 11:31:36 -0500
From: "Michael Melland" <w9wis@charter.net>
To: <qrp-l@lehigh.edu>

Subject: [99309] FT-817 Rig Control Software.... Cool !
Message-ID: <003f01c0ec4a$a8ae3ca0$3a928ad8@computer>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I don't own a Yaesu FT-817 but if I did this software from the UK looks pretty cool. Save and restore the 200 memories and full PC control of the FT-817..... and cheap at $15 USD.

Disclaimer: Never tried it, don't own a FT-817, use at ur own risk, I don't know the author.... but it does look neat !

Mike
--
Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
http://www.qsl.net/w9wis

Date: Sun, 03 Jun 2001 12:38:18 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [99310] Re: MH-101 - VFO comes alive in Cajunland
Message-ID: <20010603.113634.4647.3.n5ib@juno.com>

Followup on the VFO....

Tuning range with the 100K pot is right at 37 kHz, nice smooth tuning and very stable. That range is just about ideal for 30 m. I'll be interested to see what additional capacitance at C7 can bring the VFO down all the way to 2.32 MHz to allow a tuning range that includes WWV. Then maybe provide a switch to select that range.

Drift characteristics:

-35 Hz over the first 10 minutes from power up, 25 Hz of that in the first 5 min. Then just +/- 5 Hz over the next 60 min. This with the board out in the open on the bench with the ceiling fans going.

All-in-all pretty good results. I shall await guidance on the non-IF-can version of the Rx front end and Tx chain before continuing.

I found in my junque boxe a curious little 10 K linear potentiometer that

uses 3 ball bearings to effect a reduction drive. Perfect for the main tuning, if I can figure out a way to mechanically attach to the actual rotor to move a dial pointer. No digital dials for me on this radio. No keyers either, just a jack to plug in a J-38.

I'm beginning to think about the final packaging - a wood box for sure - and I want it to look a little retro - big knobs, phone jack on the front, speaker firing thru the front panel, etc. Might even go with a multi-turn tuning pot and concoct a linear dial with dial cord and all the trimmings.

72
Jim N5IB
grasshopper

Date: Sun, 03 Jun 2001 10:33:19 -0700
From: KB7WW Art Moe <kb7ww@uswest.net>
To: qrp <qrp-l@lehigh.edu>
Subject: [99311] 6 METER QSO 3 W TO 10 MW
Message-ID: <3B1A74DF.7848A0AB@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just thought some of you might like to know that QRPp works on 6. Just worked N6CA in DM03 S. Cal. He was running 10 mw gave him a 449. got a 559. I am in CN85 N Ore.

Art
KB7WW

Date: Sun, 3 Jun 2001 13:11:26 -0500
From: "Jim" <sunwatt@starband.net>
To: "K2-L" <elecraft@qth.net>, "QRP-L" <qrp-L@Lehigh.edu>, <qrpp@yahoogroups.com>, "SolarQRP" <QRPSolarPower@yahoogroups.com>
Subject: [99312] Milliwatt Field Day anyone?
Message-ID: <000f01c0ec58$a4553a60$9a354794@computer>
MIME-Version: 1.0

Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Field day is afew weeks away. Plenty of time to organize the best Milliwatt Field Day ever.

How do you do that? Just have a rig ready to go for the event, and batteries charged. Hopefully by Solar power. Choose a logging program, and arrange with the family for afew hours to devote to the effort.

If you can be outside, and with a group of other hams all the better. Have your own portable station ready, and have your antenna of choice tuned and ready. Or its fine if you operate at home with regular antennas.

If you decide to join in on Milliwatt Field Day, keep a separate log, and write a summary of the experience. Post it here, and send it to me for possible inclusion in a future issue of the ARCI QRP Quarterly.

sunwatt@starband.net

Any of the big events like Field Day can be a great time to experiment with QRPp. You should have no problem finding lots of stations to copy you at almost any power level.

I put up a simple webpage to show what I'm talking about. Have a look at this example of how much fun you can have with less than one watt. Have a peek at this.

http://sunwatt.homestead.com/2001CQWPX.html

I mentioned logging software. Have you tried the QRP Dupe program?

Its fantastic, it does Field Day, keeps score, and its free.

http://www.dancris.com/~bkassel/index.htm#top

CW is the best, QRP rules, and after one successful milliwatt outing, you may never be the same !

You might decide to set your power level at 500mW and go for Worked All States.

QRP ARCI has a QRP WAS award, with Milliwatt endorsement. You might be able to get mW WAS in one weekend.

72's de Jim KJ5TF
"All Milliwatts, All The Time"

http://sunwatt.homestead.com/Main.html

Date: Sun, 03 Jun 2001 14:20:58 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-l@lehigh.edu, QRP-L@lehigh.edu
Subject: [99313] TAC SUMMARY FOR N2CQ
Message-ID: <3.0.6.32.20010603142058.00891400@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

TAC CONTEST LOG JUNE 2001
STATION N2CQ
CLASS:QRPp 900mW/Homebrew (K1 20/40 and GM-15 on 15)

QSO pts: (54 QSOs) 40*5=200 + 14*10=140 (PA)= 340 pts
TAC Multipliers: 43
N3EPA QS0s: 1*500=500
Categories: QRPp=1000. Homebrew=1000.
Scoring: 340 x 43 + 2500 = 17120

TOTAL CLAIMED SCORE = 17,120 QRPp Category

72 de

Ken Newman - N2CQ
Woodbury, NJ
N2CQ@ARRL.NET

~~~ QRP CONTEST CALENDAR ~~~
http://www.n3epa.org/Pages/Contest/contest.htm

Eastern PA QRP Club Member #9

Date: Sun, 3 Jun 2001 13:22:55 -0500
From: "Brian Murrey" <bmurrey@amexol.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99314] Re: I held the Tuna Tin 2
Message-ID: <003001c0ec5a$4e956800$b7532bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
~~~

Content-Transfer-Encoding: 7bit

Phil,

It's very difficult to explain the feeling, holding Doug's TT2 in your hands. I was permitted the use of it at FDIM and when Ed put it in my hands it was like magical and weird all at the same time. It's "The Holy Grail" of QRPp, and I am not worthy! <heheheh>

73

----- Original Message -----
From: "Phil (VA3UX)" <phil@vaxxine.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, June 02, 2001 10:41 AM
Subject: I held the Tuna Tin 2

> I had the immense pleasure of meeting Ed Hare in person at the Rochester,
> NY hamfest on Friday. We had arranged to meet so that I could assume
> possession of a decent sized lot of vintage Tektronix test equipment that
> Ed brought with him.
>
> After transferring several hundred pounds of vintage iron from Ed's
> fabulous vintage pick-up truck to my van, Ed reached into the front seat
of
> his pick-up and handed me a board with a small round can mounted on it.
It
> was the original Tuna Tin 2 - the same one in the pictures in the original
> article, the very one built by Doug DeMaw himself. An interesting
experience.
>
> Phil
>
>

Date: Sun, 3 Jun 2001 13:34:49 -0500
From: "Jim" <sunwatt@starband.net>
To: <qrpp@yahoogroups.com>, "QRP-L" <qrp-L@Lehigh.edu>
Subject: [99315] DXCC, All Milliwatts standings June 3rd 2001
Message-ID: <001f01c0ec5b$e6f57940$9a354794@computer>
MIME-Version: 1.0

Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Two new QSL cards arrived. The count is now at 75 confirmed, after being stuck on 73 for some time.

I think I got 17 or 18 new DXCC's in the CQ WPX contest, but sofar too busy, (lazy) to go after those cards like I was a year ago. There are another 12 DXCC's Ive worked, but not made the effort to QSL them. This is just wrong !

But with this post, I'm trying to kick my self in the behind and get going on that.

I posted my CQ WPX logs here, http://sunwatt.homestead.com/2001CQWPX.html

And to see my DXCC log at 75, goto http://sunwatt.homestead.com/Main.html and follow the links to mW DXCC.

Have fun!
de Jim KJ5TF
"All Milliwatts, All The Time"

Date: Sun, 3 Jun 2001 15:14:58 -0500
From: "Mike Duke" <k5xu@concentric.net>
To: "qrp" <qrp-l@lehigh.edu>
Subject: [99316] MFJ Folded Dipole Question
Message-ID: <001701c0ec6a$13ea8900$7b010240@k5xu>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How well does the center insulator/circuit board withstand the weather elements?

If you would like to part with any of these antennas, including the 6 meter model, I may be interested in them.

Mike Duke, President
American Council of Blind Radio Amateurs

Date: Sun, 3 Jun 2001 15:08:58 -0500
From: "Mike Duke" <k5xu@concentric.net>
To: "qrp" <qrp-l@lehigh.edu>
Subject: [99317] A neat little Speaker
Message-ID: <001601c0ec6a$12e722c0$7b010240@k5xu>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My recent search for a small monaural amplified speaker to be used with a talking bible led me to Radio Shack.

There, I found catalog #277-1008, for $11.95. This shirt-pocket size box contains a speaker, amplifier, and connector for a 9 volt battery. It has mini jacks for the input and output, a volume control, and a coaxial jack for external power.

Although I bought this unit for use as outlined above, I have never outgrown my childhood fetish of trying a newly acquired speaker on everything in the house! My OHR-100 really comes to life when connected to it, giving me enough audio to fill my shack with the music of 30 meter cw.

The speaker's 200 MW amplifier has more than enough power to drive the speaker into un-intelligibility with a very low input level.

Give it a try if you don't want to be married to headphones.

Mike Duke, President
American Council of Blind Radio Amateurs

Date: Sun, 3 Jun 2001 15:14:59 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <n2go@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99318] Re: Ten Tec Argonaut 509
Message-ID: <006901c0ec61$7b9c5640$3294fea9@robertpa>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've replaced the bungy in my Triton II by buying it at a fabric store.
Cost $1.00 for around 25 feet of it so a real bargain.

Cheers,
Robert
VE3RPF

----- Original Message -----
From: <n2go@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, June 03, 2001 7:01 AM
Subject: Re: Ten Tec Argonaut 509

> Ten Tec has the dial cord and "bungy".Their service department guys are
> second to none.
>
> 73,
>
> Jim n2go
>
>
>

Date: Sun, 3 Jun 2001 14:14:18 -0600
From: "Rod Cerkoney, N0RC" <n0rc@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99319] Re: FS Sierra Band Modules for 80m & 10m
Message-ID: <003a01c0ec69$c5954830$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

80m module has been sold.
-rc-
----- Original Message -----
From: "Rod Cerkoney, N0RC" <n0rc@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, June 02, 2001 6:36 PM
Subject: FS Sierra Band Modules for 80m & 10m

> Assembled, $30 each, shipped CONUS

Date: Sun, 03 Jun 2001 15:21:35 -0500
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>
To: qrp-l@lehigh.edu
Subject: [99320] Need Schematic/parts list:
Message-ID: <5.0.2.1.2.20010603151938.022b87c0@mail.oklahoma.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I would like to try my hand at rollin my own 20 meter SST. Anybody
have a schematic & parts list I could get? Happy to re-imburse for
expenses. Thanks!
-
J. W. (Dub) Thornton WA5YFY
Minco, OK.

Date: Sun, 3 Jun 2001 14:53:14 -0600
From: "Rod Cerkoney, N0RC" <n0rc@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "Elecraft-list"
<elecraft@qth.net>, "Flying Pigs" <fpqrp-l@mpna.com>
Subject: [99321] FS 1N4148 Diodes
Message-ID: <005e01c0ec6f$36ab39d0$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

I've got extra 1N4148 diodes for sale. About 5800 extra :-O!

Here's the deal:

 50 1N4148s shipped CONUS $3.00

100 1N4148s shipped CONUS $4.50

*** "Buy 'em with a buddy special": ***

500 1N4148s shipped CONUS $12.00 (~ $0.025 per diode)

Add $4 to the above prices if you want them shipped USPS

Priority 2-3 Days.

OK HBers, here your chance to stock on the cheap.

73, Rod N0RC
Ft Collins, CO

****
SuperFest 2001 14-Jul-2001
http://www.qsl.net/n0rc/hamfest/hamfest.html
BE THERE!
****

Date: Sun, 03 Jun 2001 16:57:43 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99322] Poles, Inverted V's, and Lists, Oh my!
Message-ID: <3B1AA4C7.7FE2EB3F@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In the middle of far too many meanderings I ended up at the local
Wal-Mart, and checked on those dandy golf ball retrievers. Yup, had the
15 ft model in stock for $10. Not very heavy, looks durable, but 15 ft
is a bit shy for an inverted V on 40m.

The kids and I are planning a field trip to a local high point for some
in the field operating, and having scouted the site, it looks like an
inverted V would be the best antenna option---open rock with no trees
does not make a dipole look possible.

All that I know about Inverted V's can be listed on the thin end of the
golf ball retriever pole, but I assume the mid-point needs to be up at
least a 1/4 wavelength just like its cousin the dipole in order to get
any directionality to the signal. That would be 16+ feet. So, has anyone
successfully used one of these handy retrievers for an inverted 40m V
and if so, did you supplement the height of the pole?

And, after considering this might be a useful thing in light of the
coming Field Day, not to mention all the nice warm weather for other
outside operating fun, could several of you "been there, done that"
veterans share with us a list of what you would not go out into the

field without? Since I'm probably not the only newbie to field qrping, there are others who would benefit.

73

Ken KG4FGC

Date: Sun, 3 Jun 2001 16:35:34 +0000
From: nilsbull@juno.com
To: QRP-L@lehigh.edu
Subject: [99323] I found another little empty box . . . intervention continued . . .
Message-ID: <20010603.163542.-182249.2.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Peeps,

I was cleanin' up the trash pile around the desk & gettin' things fixed up so I could put 'em in Cindy's car for the vacation exploranza when I came across a little aluminum box. Just about right for a small CW transceiver. Maybe a take on the Sudden receiver with a small op-amp AF filter & a couple watts output. Tiny antenna tuner maybe too. Don't know.

But there the box is & here I sit with nothin' to build but the front of the lap drawer on Dad's old desk fallen off into my lap. I kid you not. It survived 40-odd years with him & then I have it for 16 years and it's startin' to fall apart on me. Literally on me. Hope the cabinet guy who works with the guy who redid our kitchen can fix this.

Meanwhile, there's this little box. Empty. Larger than the Altoid's box that the FOXX3 went into . . . still need to have a Q with that one . . . I could copy the T/R & sidetone circuit into a small piece of that holey phenolic stuff RadioShack.com sells . . . the oscillator circuit could be xtal controlled with a bender on it . . . RIT'd be easy . . . and a 2N3866 final . . . one of them simple LC coupled tuner doodads . . . .even fit a 9V battery in there . . . or run it on a couple half-dozen potato batteries . . . yeah . . . better than them vinegar-soaked blotter & a nickle & a penny batteries like I used as a kid . . . yeah . . . I even have a couple extra cockroaches . . . you know . . . 2N2222s in metal cans . . . but where can I get a couple NE602s? Hmmm . . . .no, I don't think I'll do SMT . . . ain't got that much patience . . . and a week until I go on vacation . . . maybe I could take the parts with me on the road and hold up in a hotel in Kansas . . . have the spirit of

William Burroughs help me out . . . whikey . . . cats . . . slobberin' iron . . . rabbit venom . . . cheese otters . . .

. . . "farm kitchen, blinds drawn, guns propped in corners . . . and suddenly it came to him that he was going to die . . . not sooner or later . . . they all knew that . . . but tonight . . . it came to him in a puff . . . the wind that makes a candle flicker . . . "

Where's my copy of "Tornado Alley"? I could put the book in with the tools & maybe Cindy wouldn't notice . . .

73

Nils
 . . . have you guys got an intervention team going yet? I mean, like one of them run-off-at-the-first-call-sirens-screaming-racing-down-the-road kinda deals? A big golden Buddha painted on the roof . . . "Ish was dead when they picked up the stretcher . . . " (All quotes from "Where He Was Going," published in "Tornado Alley" and read with organ music radio drama effects on the CD "Dead City Radio," which is probably the best Burroughs recording there is . . . not necessarily a radio-related topic . . . except for the title of the CD. So flame me . . .

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes Sonrientes
http://w8ijn.www6.50megs.com -- W8IJN --
http://members.fortunecity.com/nilsbull
"In MY day we FIGHT to have earphones! Every DAY was STRUGGLE!"
                          -- Comrade Nikolai Sergeievich McTovarishov, 19 Oct 1917

Date: Sun, 03 Jun 2001 18:09:40 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: bmurrey@amexol.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [99324] Re: I held the Tuna Tin 2
Message-ID: <3B1AB5A4.5CB9E226@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Glad you guys liked holding it in your hands. It spent the better part of a summer here being restored! It didn't smell of fish either!

73

Date: Sun, 03 Jun 2001 16:35:53 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: hoglund@wfu.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99325] Re: Poles, Inverted V's, and Lists, Oh my!
Message-ID: <3B1AADB9.150E8E76@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I would go with a St. louis vertical, be lazy, rather than make a loading coil, would just make a vertical on the collapsible fishing pole for 22 feet, see W4RNL's "If I Had Only One Antenna" , make about 8-16 radials, feed with ladder line, tuner for 30-10 mtrs.

My favorite is that antenna on a DK9SQ mast, with a NJQRP base or a piece of pole in ground, holding the feed point up about 11 feet off earth. Or from ARS Sojourner, tape a 33 ft wire to mast, put 16 radials down -
73
Dave K8BBM

Kenneth Hoglund wrote:
>
> In the middle of far too many meanderings I ended up at the local
> Wal-Mart, and checked on those dandy golf ball retrievers. Yup, had the
> 15 ft model in stock for $10. Not very heavy, looks durable, but 15 ft
> is a bit shy for an inverted V on 40m.
>
> The kids and I are planning a field trip to a local high point for some
> in the field operating, and having scouted the site, it looks like an
> inverted V would be the best antenna option---open rock with no trees
> does not make a dipole look possible.
>
> All that I know about Inverted V's can be listed on the thin end of the
> golf ball retriever pole, but I assume the mid-point needs to be up at
> least a 1/4 wavelength just like its cousin the dipole in order to get
> any directionality to the signal. That would be 16+ feet. So, has anyone

> successfully used one of these handy retrievers for an inverted 40m V
> and if so, did you supplement the height of the pole?
>
> And, after considering this might be a useful thing in light of the
> coming Field Day, not to mention all the nice warm weather for other
> outside operating fun, could several of you "been there, done that"
> veterans share with us a list of what you would not go out into the
> field without? Since I'm probably not the only newbie to field qrping,
> there are others who would benefit.
>
> 73
>
> Ken KG4FGC

End of QRP-L Digest 2209
****
